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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/009,845	03/27/2002	Lewis Colman	6727/0K097	1219	
7278 7	590 03/29/2004		EXAM	INER	
DARBY & DARBY P.C. P. O. BOX 5257			COLON, C	COLON, GERMAN	
	NY 10150-5257	_	ART UNIT	PAPER NUMBER	
,			2879		

DATE MAILED: 03/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	10/009,845	COLMAN, LEWIS			
Office Action Summary	Examiner	Art Unit			
	German Colón	2879			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ⊠ This	☐ This action is FINAL . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5/15/03,1/17/02.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 4, and 13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4 and 13 use the alternative expression commonly referred to as a Markush group. However, it is improper to use the term "comprising" instead of "consisting of". See Ex parte Dotter, 12 USPQ 382 (Bd. App. 1931) and MPEP 2173.05(h).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 10-14 rejected under 35 U.S.C. 102(b) as being anticipated by Timmermans et al. (US 3,855,543).

Regarding claim 10, Timmermans discloses an electrically excited gas discharge lamp, whose output is characteristic of spontaneous emission of at least one IR-active gas species to a ground state, comprising:

a lamp envelope containing a gas mixture comprising said at least one IR-activate gas species (see Fig. 1);

electrodes 2,3 for exciting said at least one IR-active species;

and a catalytic material 6 located within said lamp envelope.

Regarding claim 11, Timmermans discloses the lamp comprising a catalytic material. The recitation "said catalyst is operative to increase spectral stability" has not been given patentable weight because is considered an intended used recitation. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

Referring to claim 12, Timmermans discloses the catalytic material 6 being coated on an inside wall of said envelope (see Fig. 1).

Referring to claim 13, Timmermans discloses the catalytic material 6 being gold.

Referring to claim 14, Timmermans discloses the IR-active gas being carbon dioxide.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Timmermans et al. (US 3,855,543) in view of Muzeroll (US 5,340,346).

Regarding claim 1, Timmermans discloses a method of making an electrically excited gas discharge lamp, whose output is characteristic of spontaneous emission of at least one IR-active gas species to a ground state, comprising:

constructing a lamp envelope;

and filling said envelope with a gas mixture comprising said at least one IR-activate gas species;

and including a catalytic material 6 located within said lamp envelope.

Timmermans is silent regarding the step of cleaning the lamp envelope.

However, Muzeroll discloses a method of manufacturing a lamp and teaches to clean the lamp envelope in order to remove impurities and contaminants deposited within the envelope that can affect the discharge and lifetime of the device (see Col. 5, lines 17-21). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to clean the lamp envelope disclosed by Timmermans with the purpose of removing impurities and contaminants deposited within the envelope that can affect the discharge and lifetime of the device.

Regarding claim 2, Timmermans-Muzeroll discloses the lamp comprising a catalytic material. The recitation "said catalyst is operative to increase spectral stability" has not been given patentable weight because is considered an intended used recitation. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

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Referring to claim 3, Timmermans discloses the catalytic material being coated on an inside wall of the envelope.

Referring to claim 4, Timmermans discloses the catalytic material being gold.

Referring to claims 5 and 7, claims 5 and 7 are rejected over the reasons stated in the rejection of claim 1.

In regards to claim 6, Timmermans-Muzeroll discloses the claimed invention except for the limitation of "the lamp volume being less than approximately 6 mL". However, it has been held that a change in size is generally recognized as being within the level of ordinary skill in the art. Thus, it would have been obvious to one having ordinary skill in the art to provide a lamp having a volume of 6 mL, since such a modification would have involve a mere change in the size of a component.

In regards to claim 8, Timmermans discloses the IR-active gas species being carbon dioxide.

In regards to claim 9, Timmermans-Muzeroll discloses the claimed invention except for the limitation of "the concentration of carbon dioxide being less than 5%". However, it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the concentration of carbon dioxide in less than 5%, since it is generally considered to be within the ordinary skill in the art to adjust, vary, select or optimize the numerical parameters or values of any system absent a showing of criticality in a particular recited value.

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Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to German Colón whose telephone number is 571-272-2451. The

examiner can normally be reached on Monday thru Thursday, from 8:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel can be reached on 571-272-2457. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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Joseph Williams Apryth Wile

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